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GenCore version 5.1.6

Run on: March 16, 2005, 15:48:46 ; Search time 177 Seconds
(without alignments)
454.217 Million cell updates/sec

OM protein - protein search, using sw model

Perfect score: US-10-730-034-1

Sequence: 1 YFGKLESKLSVIRNLNDQVL..... LKKDELGDRSIMFTVQED 157

scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612378

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : UniProt_03:*

1: uniprot_sprot:*

2: uniprot_trembl:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	811	99.9	189	06WWJ7
2	811	99.9	193	1 IL18_HUMAN
3	798	98.3	193	2 Q96K18
4	792	97.5	193	2 Q9BG15
5	659	81.2	193	1 IL18_HORSE
6	659	81.2	193	2 Q6T573
7	659	81.2	193	2 Q6TLWA
8	654	80.5	178	2 Q9MZ18
9	654	80.5	193	1 IL18_BOVIN
10	648	79.8	193	2 Q9GL05
11	647	79.7	159	2 Q6OVC4
12	637	78.4	192	1 IL18_PIG
13	634	78.1	192	2 Q95M33
14	633	78.0	192	2 Q865B8
15	626	77.1	192	2 Q9N1P7
16	613	75.5	193	1 IL18_CANFA
17	578	71.2	177	2 Q6STL7
18	536.5	66.1	195	2 Q8Y077
19	515	63.4	189	2 Q80SS8
20	514.5	63.4	192	1 IL18_MOUSE
21	514.5	63.4	194	1 IL18_HCAT
22	501	61.7	192	2 Q6USQ5
23	441	54.3	196	2 Q91265
24	313	54.3	196	2 Q95LE7
25	204	38.5	84	2 Q9NQ49
26	193	23.8	45	2 Q98S01
27	184.5	22.7	211	2 Q8AV26
28	182.5	22.5	169	2 Q61t44
29	182.5	22.5	198	2 Q918D2
30	178.5	22.0	196	1 IL18_CHICK
31	178.5	14.3	199	2 Q70PK1

RESULT 1

ID	Q6WWJ7	PRELIMINARY;	PRT;	189 AA.
AC	Q6WWJ7;			
DT	05-JUL-2004 (TREMBLrel. 27, Created)			
DT	05-JUL-2004 (TREMBLrel. 27, Last sequence update)			
DT	05-JUL-2004 (TREMBLrel. 27, Last annotation update)			
DE	DELTAPRO-IL-18.			
GN	Name=IL18;			
OS	Homo_sapiens (Human)			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Oxfish; tonatia sau			
OX	NCBI_TaxID=9606;			
RN	[1]			
RP	SEQUENCE FROM N.A.			
RA	Gaggero A., De Ambrosis A., Mezzananza D., Piazza T., Rubartelli A.,			
RA	Figini M., Canevari S., Ferrini S.;			
RT	"A novel isoform of pro-interleukin-18 expressed in ovarian tumors is resistant to caspase-1 and -4 processing.";			
RT	resistant to caspase-1 and -4 processing.";			
RL	0.0-0.1(2004).			
DR	OncoGene 0:0-0(2004).			
DR	AY66351; AY829112.1; -			
DR	InterPro; IPR00896; Cytok_IL1-like.			
SQ	SEQUENCE 189 AA; 21896 MW; ABB275CF713A4B6 CRC64;			
Query Match	99.9%; Score 811; DB 2; Length 189;			
Best Local Similarity	99.4%; Pred. No. 1.5e-67; 1; Gaps			
Matches	156; Conservative 0; Mismatches 0; Indels 0;			
QY	1 YFGKLESKLSVIRNLNDQVLIDQGRPLFEDMTSDCDNAAPRTIFIISMYKDSOPRG			
Db	33 YFGKLESKLSVIRNLNDQVLIDQGRPLFEDMTSDCDNAAPRTIFIISMYKDSOPRG			
QY	61 AVTISVCKEXISXLSCENKISIFKEMNPNDKIKDSIFFQRSVPGHDNQMFESSY			
Db	93 AVTISVCKEXISXLSCENKISIFKEMNPNDKIKDSIFFQRSVPGHDNQMFESSY			
QY	121 EGYFLACKEDLFLKILKKEDELGDRSIMFTVQED 157			
Db	153 EGYFLACKEDLFLKILKKEDELGDRSIMFTVQED 189			

RESULT 2

ID	IL18_HUMAN	STANDARD;	PRT;	193 AA.
AC	Q14116; Q75599;			
DT	15-JUL-1998 (Rel. 36, Created)			
DT	15-JUL-1998 (Rel. 36, Last sequence update)			
DT	25-OCT-2004 (Rel. 45, Last annotation update)			
DE	Interleukin-18 precursor (IL-18) (Interferon-gamma inducing factor)			
DE	(Interleukin-1 gamma) (IL-1 gamma)			
DB	DELTAGamma-inducing factor; Name=IL18; Synonyms=IGIF;			
GN	Homo_sapiens (Human)			
OS	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Buteraria; Primates; Catarrhini; Hominida; Homo.			

ALIGNMENTS

OX NCBI_TaxID=9606;
 RN [1] DR Genew; HGNC:5986; IL18.
 RP DR H-INVDB; HIX0010123; -.
 TISSUE=Liver;
 RX DR H-INVDB; HIX0010123; -.
 MEDLINE=95247666; PubMed=8666798;
 RA DR MIM: 600533; -.
 RA DR GO; GO:0005125; C:extracellular; TAS.
 RA DR GO; GO:0005125; P:cytokine activity; TAS.
 RA DR GO; GO:0004871; P:signal transducer activity; TAS.
 RA DR GO; GO:0001525; P:angiogenesis; IDA.
 RA DR GO; GO:0007267; P:cell-cell signaling; TAS.
 RT DR GO; GO:0042033; P:chemokine biosynthesis; TAS.
 RT DR GO; GO:0042253; P:granulocyte macrophage colony-stimulating f. . . ; TAS.
 RT DR GO; GO:0006955; P:immune response; TAS.
 RL DR GO; GO:0008625; P:induction of apoptosis via death domain rec. . . ; ISS.
 RP DR GO; GO:0042095; P:interferon-gamma biosynthesis; TAS.
 RA DR GO; GO:0042231; P:interleukin-13 biosynthesis; TAS.
 RT DR GO; GO:0042104; P:positive regulation of activated T-cell pro. . . ; IDA.
 RL DR GO; GO:0030155; P:regulation of cell adhesion; IDA.
 RN [3] DR GO; GO:0030431; P:hep; ISS.
 "Liu J., Peng X., Yuan J., Qiang B.;
 "Cloning and sequencing of the cDNA for precursor hIL-18.";
 Submitted (JUL-1998) to the EMBL/GenBank/DBJ databases.
 DR GO; GO:0042092; P:T-cell helper 2 type immune response; TAS.
 DR DR Int-PRO; IPRO0896; Cytok IL1-like.
 DR DR InterPro; IPRO00975; Interleukin_1.
 DR SMART; SM00125; IL1; 1.
 RN [4] DR 3D-structure; Cytokine.
 RP DR PROPEP 1 36
 PT DR CHAIN 37 193
 RX DR MATCHES 156; CONSERVATIVE 0; MISMATCHES 1; INDELS 0; GAPS 0;
 PT DR CONFLICT 66 66
 RA DR PT CONFLICT 86 86
 RA DR PT CONFLICT 191 191
 RA DR SEQUENCE 193 AA; 22326 MN; 323C620203788D55 CRC64;
 RA DR Query Match 99.9%; Score 811; DB 1; Length 193;
 RA DR Best Local Similarity 99.4%; Pred. No. 1-6-67;
 RA DR P -> L (in Ref. 2).
 RA DR S -> R (in Ref. 2).
 RA DR S -> S (in Ref. 2).
 RA DR Richards S., Worley K.C., Hake S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA DR Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA DR Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA DR Brownstein M.J., Usdin T.B., Toshimori S., Carninci P., Prange C.,
 RA DR Raha S.S., Loqueland N.A., Peers G.J., Abramson R.D., Mullany S.J.,
 RA DR Bobak S.A., McEwan P.J., McCorman K.J.A., Schaefer C.F., Bhat N.K.,
 RA DR Hopkins R.F., Jordan H., Moore T., Max S.J., Wang J., Heich F.,
 RA DR Diatchenko L., Maruska K., Farmer A.A., Rubin G.M., Hong L.,
 RA DR Fahey J., Heitton B., Kettman M., Madan A., Rodrigues S., Sanchez A.,
 RA DR Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
 RA DR Blilkeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA DR Rodriguez A.C., Grimm J., Schmutz J., Myers R.M.,
 RA DR Butterfield Y.S.N., Krzywinski M.I., Skalaka U., Smilus D.E.,
 RA DR Schnerech A., Schein J.E., Jones S.J.M., Marra M.A.,
 RT DR Generation and initial analysis of more than 15,000 full-length human
 RT DR and mouse cDNA sequences.";
 RIL DR proc. Natl. Acad. Sci. U.S.A. 99:16999-16903 (2002).
 RN [5] DR
 RP DR TISSUE=Peripheral blood;
 RA DR Conti B., Kim S.J., Tinti C., Chun H.S., Joh T.H.;
 RL DR Submitted (FEB-1997) to the EMBL/GenBank/DBJ databases.
 CC DR -I- FUNCTION: Augments natural killer cell activity in spleen cells
 CC DR and stimulates interferon gamma production in T helper type I
 CC DR cells.
 CC DR -I- SUBCELLULAR LOCATION: Secreted.
 CC DR -I- SIMILARITY: Belongs to the IL-1 family.
 CC DR
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 DR BMBL; D49950; BAX08706.1; -.
 DR EMBL; AF077611; AAC27787.1; -.
 DR EMBL; AY04641; AKS5950.1; -.
 DR EMBL; BC000007; AH00007.1; -.
 DR EMBL; BC007461; AAH07461.1; -.
 DR EMBL; U90434; AAC5001.1; -.
 DR PDB; 1J0S; NMR; A=37-193.
 DR QCP; Q14116; -.
 RN [6] DR
 RP DR SEQUENCE FROM N.A.
 RA DR Ying P., Jianxin L.;
 RL DR Submitted (MAY-2001) to the EMBL/GenBank/DBJ databases.
 DR EMBL; AR30360; AKS7024.1; -.
 DR HSSP; Q14116; 1J0S;
 DR DR GO; GO:000576; C:extracellular.
 DR GO; GO:0005149; P:interleukin-1 receptor binding; IEA.
 DR GO; GO:0006955; P:immune response; IEA.
 DR InterPro; IPR008996; Cytok IL1-like.
 DR InterPro; IPR000975; Interleukin_1.
 DR SMART; SM00125; IL1; 1.
 SQ DR SEQUENCE 193 AA; 22323 MW; 2E500205D1B7B5F7 CRC64;